Balloon-Powered Boat

Kit contains:

- Pool noodle piece
- Zip tie
- Balloon
- Clear vinyl tube

You will need: scissors, a pencil, a ruler (optional), and a container of water.

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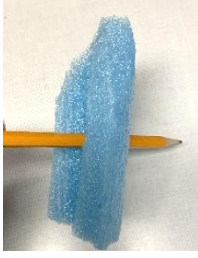
INSTRUCTIONS

Step 1. Cut the pool noodle to a point on one end. This will be the front of your boat.

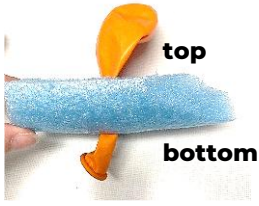


Step 2. Use a pencil to poke a hole in the middle of the pool noodle.

Tip: Poke the pencil through the hole a few times. This will make it easier to pull your balloon through later.

Step 3. Place the clear tube on the back of the pool noodle as shown. Use the pencil to poke holes on both sides of the tube about 0.5 inch from the bottom.

Step 4. Use the eraser end of the pencil to push the neck of the balloon through the hole in the middle of the pool noodle.

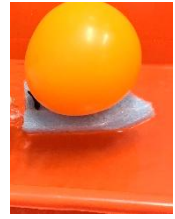


Step 5. Insert the tube all the way into the sticky-outy neck of the balloon. Lay the tube flat against the bottom of the pool noodle. Secure it in place with the zip tie! Thread the zip tie down through one of the pool noodle holes from step 3, wrap it around the tube/ balloon combo, up through the other hole, and zip tight.

Continued →

Fill a large container, bathtub, or kiddie pool with water, and get ready to zoom!

Step 6. Blow into the clear tube to inflate the balloon. Hold a finger over the tube to keep the air in the balloon while you place the boat in the water. Release your boat and watch it go!



HOW DOES MY BOAT MOVE?

Your boat moves because of **Newton's Third Law of Motion:** For every action, there is an equal and opposite reaction.

When you release your boat, the air rushes out the tube and pushes the water backward. The water reacts by pushing the boat forward.